

Database Design

User	
user_id	INTEGER PRIMARY KEY AUTOINCREMENT
first_name	VARCHAR(255)
last_name	VARCHAR(255)
email	VARCHAR(255)
mobile_number	VARCHAR(255)
password	VARCHAR(255)

Admin	
admin_id	INTEGER PRIMARY KEY AUTOINCREMENT
password	TEXT

Water Monitoring System	
water_id	INTEGER PRIMARY KEY AUTOINCREMENT
water_data	VARCHAR(255)
water_ph	VARCHAR(255)
water_salinity	VARCHAR(255)
sar_water_temp	VARCHAR(255)

Water Source	
source_id	INTEGER PRIMARY KEY AUTOINCREMENT
name	TEXT
location	TEXT
water_type	TEXT

Measurement	
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measurement_id	INTEGER PRIMARY KEY AUTOINCREMENT
sensor_id	INTEGER
timestamp	TEXT
temperature	REAL
pH	REAL
turbidity	REAL
conductivity	REAL

Alert	
alert_id	INTEGER PRIMARY KEY AUTOINCREMENT
measurement_id	INTEGER, FOREIGN KEY REFERENCES Measurement(measurement_id)
alert_type	TEXT
description	TEXT
timestamp	TEXT
acknowledged	INTEGER

Arduino	
arduino_id	INTEGER PRIMARY KEY AUTOINCREMENT
arduino_name	TEXT
location_id	INTEGER, FOREIGN KEY REFERENCES Water Source(source_id)

Sensors	
sensor_id	INTEGER PRIMARY KEY AUTOINCREMENT
sensor_name	TEXT
location_id	INTEGER, FOREIGN KEY REFERENCES Water Source(source_id)
sensor_type	TEXT

